

# BRC5080C03YM

Rev.C Mar.-2024



DATA SHEET

PDFN5×6A

MOS

Complementary Enhancement MOSFET in a PDFN5×6A Plastic Package.

N-channel

$V_{DS}(V)=30V$

$I_D=39.5A$

$R_{DS(ON)}<10m (V_{GS}=10V)$

$R_{DS(ON)}<15m (V_{GS}=4.5V)$

HF Product.

P-channel

$V_{DS}(V)=-30V$

$I_D=-39A$

$R_{DS(ON)}<12m (V_{GS}=-10V)$

$R_{DS(ON)}<20m (V_{GS}=-4.5V)$

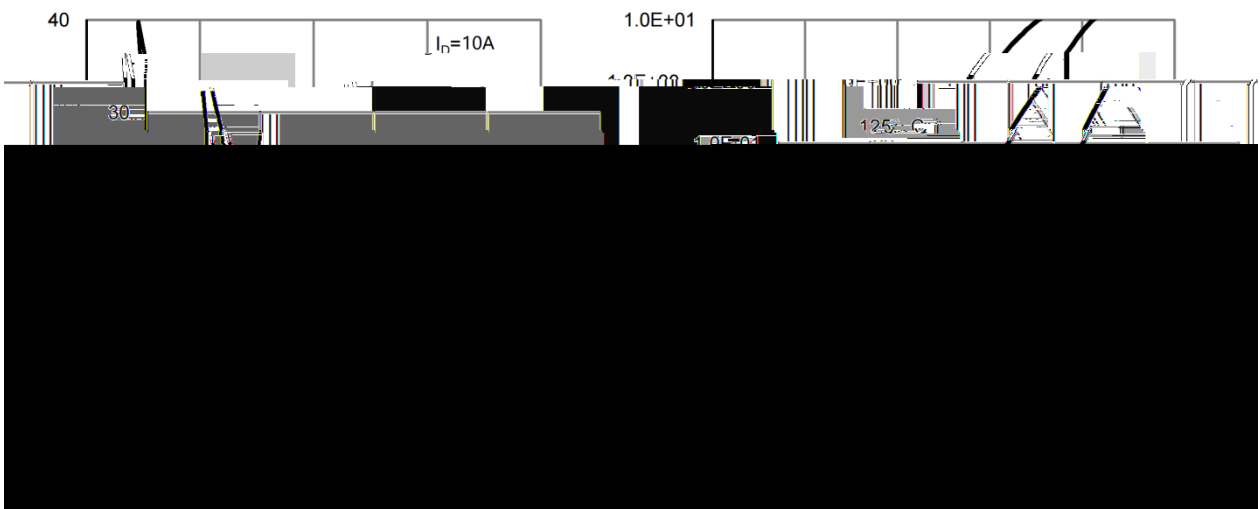
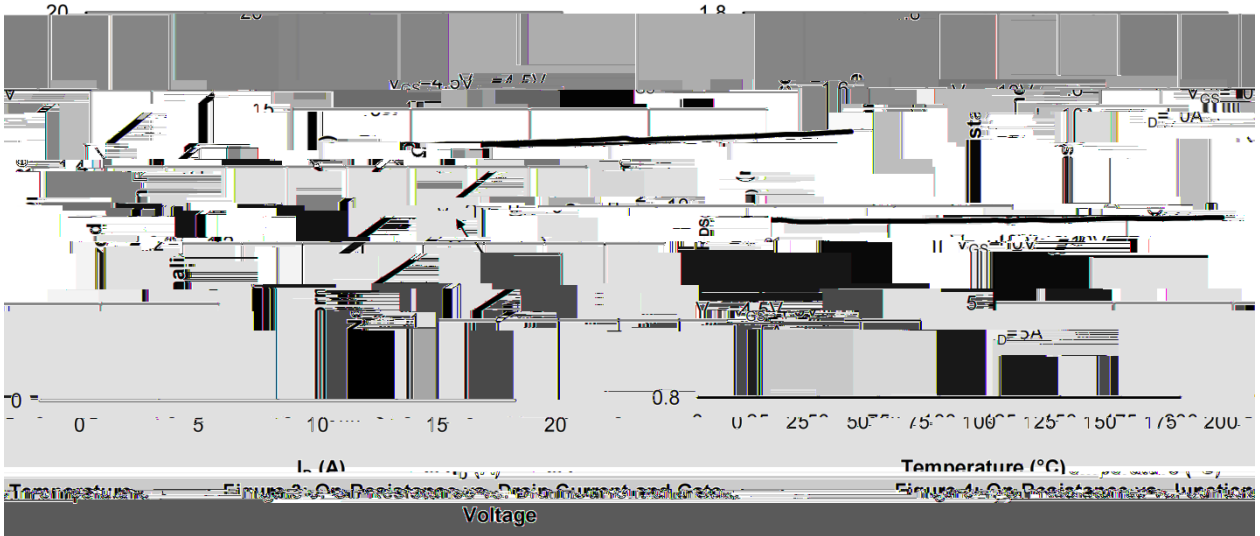
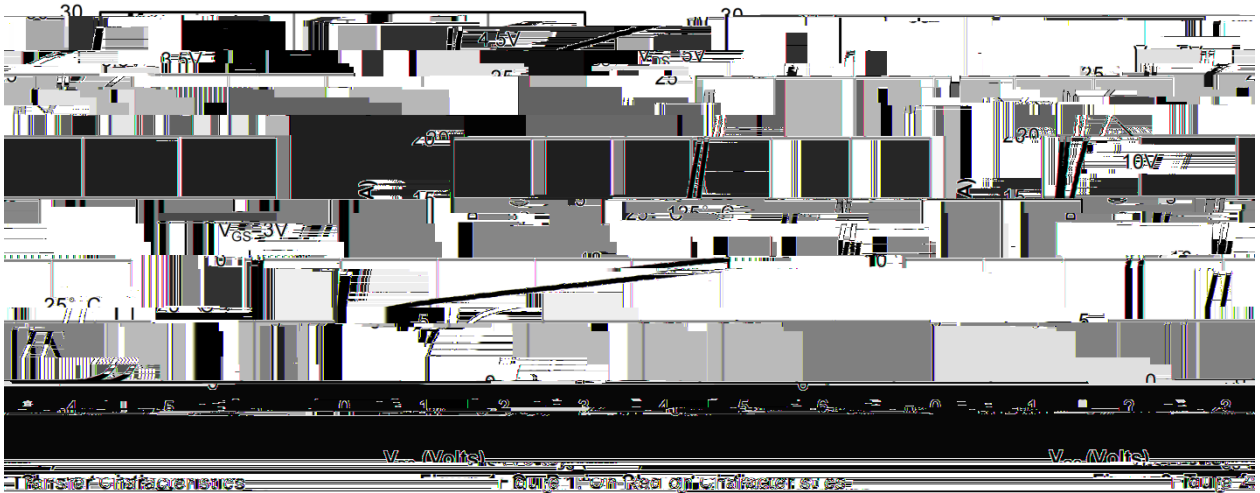
DC/DC

These devices are well suited for 1

Parameter

**BRCS080C03YM**

**N / N-CHANNEL Electrical Characteristic Curve**



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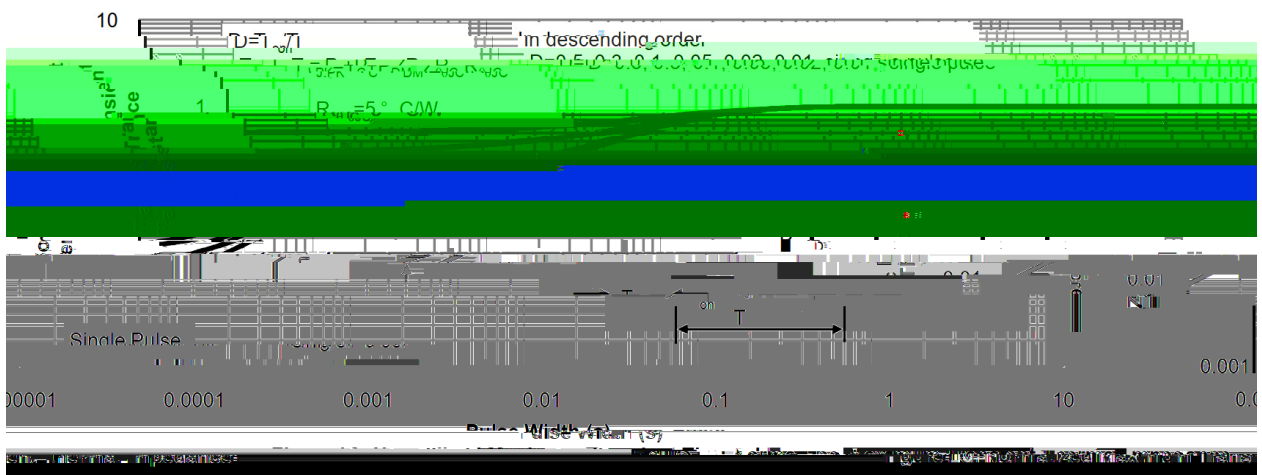
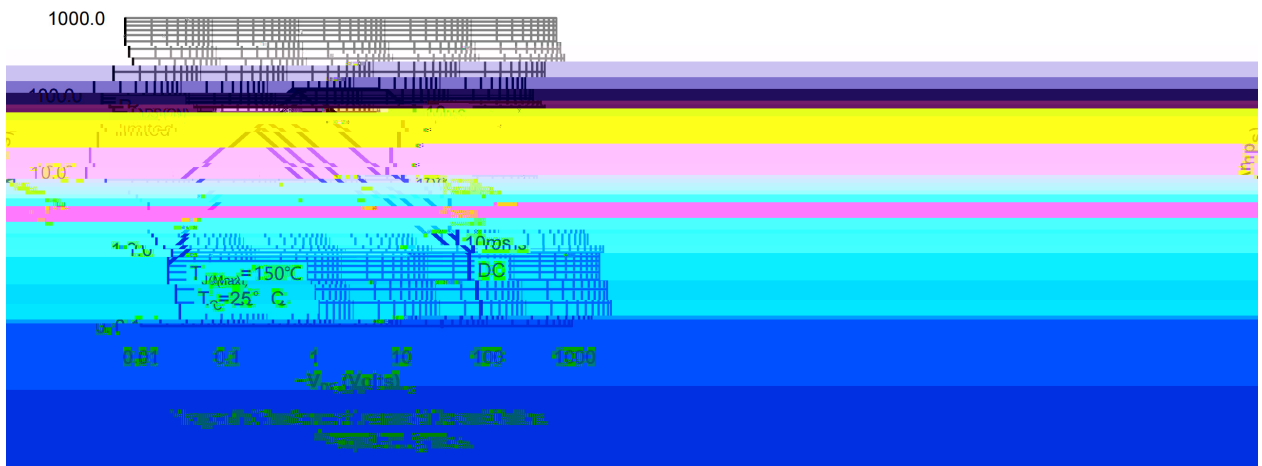
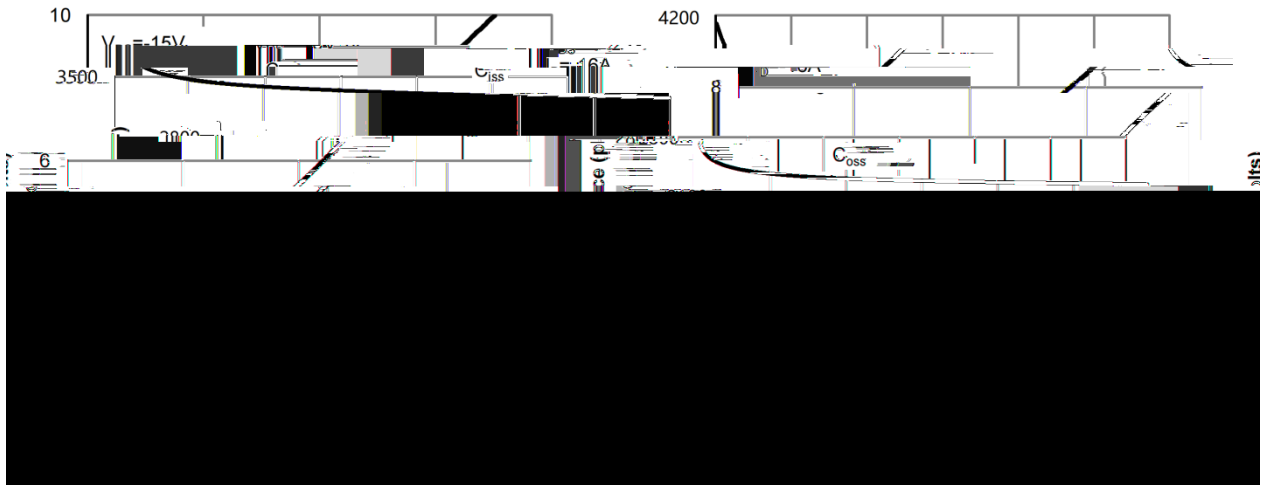


DATA SHEET

| Parameter                   | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------------------------|--------|-----------------|-----|-----|-----|------|
| Drain-Source Breakdown<br>█ |        |                 |     |     |     |      |



**P- / P-CHANNEL Electrical Characteristic Curve**



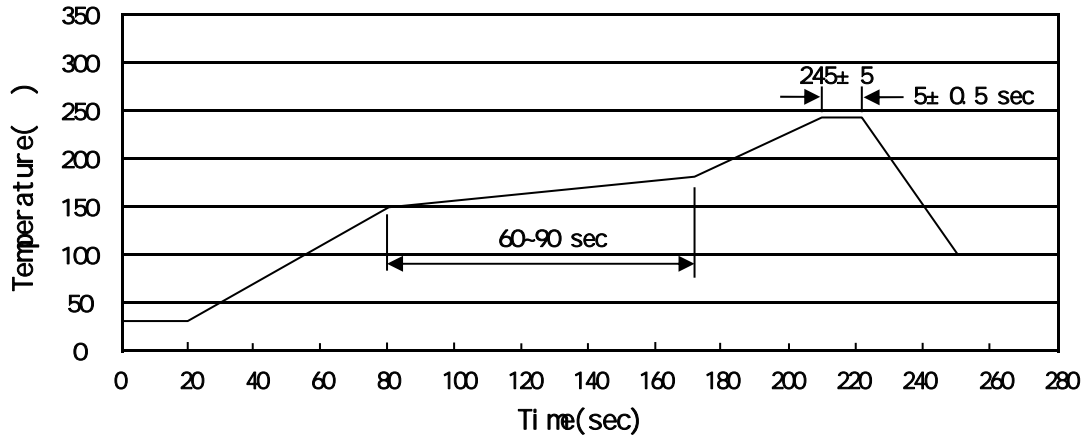
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**DATA SHEET**



**( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)**



Note:

- |   |       |     |       |          |   |
|---|-------|-----|-------|----------|---|
| 1 | 150   | 180 | 60    | 90sec;   | 1.Preheating:150~180 , Time:60~90sec.   |
| 2 | 245±5 |     | 5±0.5 | sec;     | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 |       |     | 2     | 10 /sec. | 3. Cooling Speed: 2~10 /sec.            |

**/ Resistance to Soldering Heat Test Conditions**

260±5                      10±1 sec.                      Temp.:260±5                      Time:10±1 sec

**/ Packaging SPEC.**

/ REEL

| Package Type | Units      |                 |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |            |             |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|------------|-------------|
|              | Units/Reel | Reels/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Reel                              | Inner Box  | Outer Box   |
| PDFN5x6A     | 5,000      | 2               | 10,000          | 6                     | 60,000          | 13"x12                            | 360x360x50 | 380x335x366 |

**/ Notices**